

## APPENDIX IV

LAND USE/LAND COVER	AREAS IN HUC-10 SUBWATERSHEDS (ACRES)
	06
Bare Rock/Sand/Clay	535
Deciduous Forest	37,877
Emergent Herbaceous Wetlands	44
Evergreen Forest	13,278
High Intensity: Commercial/Industrial/Transportation	4,967
High Intensity: Residential	1,748
Low Intensity: Residential	12,275
Mixed Forest	16,664
Open Water	1,116
Other Grasses: Urban/Recreational	3,403
Pasture/Hay	26,797
Row Crops	3,369
Transitional	367
Quarries	22
<b>Total</b>	<b>122,463</b>

**Table A4-1. Land Use Distribution in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed by HUC-10.** Data are from 1992 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years.

HYDROLOGIC SOIL GROUPS
<b>GROUP A SOILS</b> have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.
<b>GROUP B SOILS</b> have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.
<b>GROUP C SOILS</b> have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.
<b>GROUP D SOILS</b> have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

*Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS.*

STATION	HUC-10	AGENCY	STREAM NAME	AREA (SQ MILES)	LOW FLOW (CFS)		
					1Q10	7Q10	3Q20
03487499	0601010206	USGS	South Fork Holston River				
03487500	0601010206	USGS	South Fork Holston River	1,931	396	550	382
03487501	0601010206	USGS	South Fork Holston River				
03487550	0601010206	USGS	Reedy Creek	36.3	3.0	3.5	2.0
362625082261401	0601010206	TVA	South Fork Holston River				
362626082261401	0601010206	TVA	South Fork Holston River				
362953082303101	0601010206	TVA	South Fork Holston River				
362953082303201	0601010206	TVA	South Fork Holston River				

**Table A4-3. Historical Streamflow Data Summary Based on Mean Daily Flows in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** USGS, United States Geological Survey; TVA, Tennessee Valley Authority. Additional information may be found at <http://nwis.waterdata.usgs.gov/tn/nwis/discharge>

AGENCY	STATION	ALIAS	LOCATION	HUC-10
TDEC	BEAR000.2SU		Bear Creek @ RM 0.2	0601010206
TDEC	BEULA001.0SU		Beulah Church Creek @ RM 1.0	0601010206
TDEC	SFHOL1T1.0SU		Beulah Church Creek @ RM 1.0	0601010206
TDEC	BOOZY000.1SU		Boozy Creek @ RM 0.1	0601010206
TDEC	CEDAR002.1WN		Cedar Creek @ RM 2.1	0601010206
TDEC	CEDAR003.9WN		Cedar Creek @ RM 3.9	0601010206
TDEC	FALL000.5SU		Fall Creek @ RM 0.5	0601010206
TDEC	FALL000.6WN		Fall Creek @ RM 0.6	0601010206
TDEC	FORD000.6WN		Ford Creek @ RM 0.6	0601010206
TDEC	SFHOL008.4SU	FTPATHENRY01	Fort Patrick Henry Reservoir at Dam	0601010206
TDEC	FTPATHENRY02		Fort Patrick Henry Reservoir at Fordtown Bridge	0601010206
TDEC	GAINE000.1SU	GAINS000.1SU	Gains Branch @ RM 0.1	0601010206
TDEC	HORSE000.9SU		Horse Creek @ RM 0.9	0601010206
TDEC	HORSE010.6SU		Horse Creek @ RM 10.6	0601010206
TDEC	HORSE004.0SU		Horse Creek @ RM 4.0	0601010206
TDEC	HORSE007.3SU		Horse Creek @ RM 7.3	0601010206
TDEC	HORSE009.5SU		Horse Creek @ RM 9.5	0601010206
TDEC	KENDR000.2SU		Kendrick Creek @ RM 0.2	0601010206
TDEC	KENDR003.3SU		Kendrick Creek @ RM 3.3	0601010206
TDEC	KENDR005.3SU		Kendrick Creek @ RM 5.3	0601010206
TDEC	KENDR007.4WN		Kendrick Creek @ RM 7.4	0601010206
TDEC	LHORS000.5SU		Little Horse Creek @ RM 0.5	0601010206
TDEC	MADD001.2SU		Madd Branch @ RM 1.2	0601010206
TDEC	MADD000.5SU	MADD00.5	Madd River @ RM 0.5	0601010206
TDEC	MILL000.5SU		Mill Creek @ RM 0.5	0601010206
TDEC	POSSU000.5WN		Possum Creek @ RM 0.5	0601010206
TDEC	RED000.2WN		Red River @ RM 0.2	0601010206
TDEC	REEDY000.1SU		Reedy Creek @ RM 0.1	0601010206
TDEC	REEDY000.2SU	REEDY00.2	Reedy Creek @ RM 0.2	0601010206
TDEC	REEDY015.5SU		Reedy Creek @ RM 15.5	0601010206
TDEC	REEDY002.2SU		Reedy Creek @ RM 2.2	0601010206
TDEC	RSPRI000.4SU	ROCKS000.4SU	Rock Springs Branch @ RM 0.4	0601010206
TDEC	RUSSE000.7SU		Russell Creek @ RM 0.7	0601010206
TDEC	SINKI001.0SU		Sinking Creek @ RM 1.0	0601010206
TDEC	SINKI005.0WN		Sinking Creek @ RM 5.0	0601010206
TDEC	SFHOL005.7SU	002610	South Fork Holston River @RM 5.7	0601010206
TDEC	SFHOL002.3SU	002620	South Fork Holston River @ RM 2.3	0601010206
TDEC	SFHOL001.1SU	002630	South Fork Holston River @ RM 1.1	0601010206
TDEC	SFHOL018.5SU		South Fork Holston River @ RM 18.5	0601010206
TDEC	SFHOL005.5SU	HOLSUR16	South Fork Holston River @ RM 5.5	0601010206
TDEC	SFHOL005.5SU		South Fork Holston River @ RM 5.5	0601010206
TDEC	SFHOL007.7SU		South Fork Holston River @ RM 7.7	0601010206
TDEC	SFHOL007.9SU	HOLSUR17	South Fork Holston River @ RM 7.9	0601010206
TDEC	SFHOL008.5SU		South Fork Holston River @ RM 8.5	0601010206

AGENCY	STATION	ALIAS	LOCATION	HUC-10
TDEC	STRAI000.2SU		Straight Branch @ RM 0.2	0601010206
TDEC	TRANS000.7SU		Transbarger Branch @ RM 0.7	0601010206
TDEC	KENDR1T0.2WN		UT To Kendrick Creek @ RM 0.2	0601010206
TDEC	WALKE000.1SU		Walker Fork @ RM 0.1	0601010206
TVA	475958		Horse Creek @ RM 0.8	0601010206
TVA	475619		Reedy Creek @ RM 0.06	0601010206
TVA	475620		Reedy Creek @ RM 12.2	0601010206
TVA	476246		South Fork Holston River @ RM 0.8	0601010206
TVA	476902		South Fork Holston River @ RM 0.9	0601010206
TVA	475918		South Fork Holston River @ RM 1.2	0601010206
TVA	475121		South Fork Holston River @ RM 1.24	0601010206
TVA	476258		South Fork Holston River @ RM 1.30	0601010206
TVA	475206		South Fork Holston River @ RM 10.6	0601010206
TVA	475857		South Fork Holston River @ RM 10.8	0601010206
TVA	476443		South Fork Holston River @ RM 11.0	0601010206
TVA	476660		South Fork Holston River @ RM 11.7	0601010206
TVA	477472		South Fork Holston River @ RM 12.5	0601010206
TVA	476444		South Fork Holston River @ RM 15.0	0601010206
TVA	475207		South Fork Holston River @ RM 16.6	0601010206
TVA	476439		South Fork Holston River @ RM 17.8	0601010206
TVA	476445		South Fork Holston River @ RM 18.1	0601010206
TVA	476438		South Fork Holston River @ RM 18.4	0601010206
TVA	477474		South Fork Holston River @ RM 18.5	0601010206
TVA	475151		South Fork Holston River @ RM 18.57	0601010206
TVA	475193		South Fork Holston River @ RM 2.2	0601010206
TVA	476883		South Fork Holston River @ RM 2.3	0601010206
TVA	475192		South Fork Holston River @ RM 2.6	0601010206
TVA	475191		South Fork Holston River @ RM 3.1	0601010206
TVA	475919		South Fork Holston River @ RM 3.4	0601010206
TVA	475190		South Fork Holston River @ RM 3.9	0601010206
TVA	475531		South Fork Holston River @ RM 3.9	0601010206
TVA	475189		South Fork Holston River @ RM 4.6	0601010206
TVA	475532		South Fork Holston River @ RM 4.6	0601010206
TVA	475188		South Fork Holston River @ RM 5.6	0601010206
TVA	476257		South Fork Holston River @ RM 5.7	0601010206
TVA	477469		South Fork Holston River @ RM 6.5	0601010206
TVA	475187		South Fork Holston River @ RM 7.3	0601010206
TVA	476437		South Fork Holston River @ RM 7.4	0601010206
TVA	476436		South Fork Holston River @ RM 7.96	0601010206
TVA	476435		South Fork Holston River @ RM 8.15	0601010206
TVA	476435C		South Fork Holston River @ RM 8.15	0601010206
TVA	475120		South Fork Holston River @ RM 8.17	0601010206
TVA	475710		South Fork Holston River @ RM 8.2	0601010206
TVA	475566		South Fork Holston River @ RM 8.5	0601010206

AGENCY	STATION	ALIAS	LOCATION	HUC-10
TVA	477509		South Fork Holston River @ RM 8.7	0601010206
TVA	475567		South Fork Holston River 11.8	0601010206
TVA	475568		South Fork Holston River 16.0	0601010206
USEPA	4704A1		Below Boone Dam on East Bank	0601010206
USEPA	3403		South Fork Holston River	0601010206

**Table A4-4. STORET Water Quality Monitoring Stations in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** RM, River Mile; TDEC, Tennessee Department of Environment and Conservation; USEPA, United States Environmental Protection Agency; TVA, Tennessee Valley Authority. UT, Unnamed Tributary.

FACILITY NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	HUC-10
TN0059641	Central Heights Elementary School	4952	Sewerage System	Minor	Reedy Creek @ RM 17.0	0601010206
TN0027391	TVA-Boone Hydro Plant	4911	Electric Service	Minor	South Fork Holston River @ RM 18.6	0601010206
TN0028789	Johnson City Regional Waste Water Treatment Plant	4952	Sewerage System	Major	South Fork Holston River @ RM 18.0	0601010206
TN0027448	TVA-Fort Patrick Henry Hydro Plant	4911	Electric Service	Major	Holston River @ RM 8.1	0601010206
TN0003905	AFG Industries	3211	Flat Glass	Minor	South Fork Holston River @ RM 2.3 (Outfall 001) and Madd Branch to South Fork Holston River @ RM 4.3 (Outfall 002)	0601010206
TN0003671	BAE Systems Ordinance Systems, Inc. (HAAP)	9711	National Security	Major	South Fork Holston River (Outfalls 001, 002, 007, and 101), Holston River (Outfalls 020, 023, 025, 026, 030, 031, and 161), and Madd Branch (Outfalls 011, 012, and 018)	0601010206
TN0073946	Eastman Chemical Company B-280 Office Complex	5541	Gasoline Service Station	Minor	Storm Sewer to South Fork Holston River @ RM 3.5	0601010206
TN0002640	Tennessee Eastman Division	2821	Plastic Materials, Synthetic Resins, Nonvulcanizable Elastomers	Major	South Fork Holston River @ RM 142.2, Big Sluice of South Fork Holston River, Horse Creek	0601010206
TN0003832	Quebecor Printing	2732	Book Printing	Minor	Storm Sewer to Reedy Creek @ RM 0.5	0601010206
TN0073342	CEMEX, Incorporated	5032	Brick, Stone, and Related Construction Material	Minor	Ditch to South Fork Holston River @ RM 2.5	0601010206
TN0001643	Weyerhaeuser Company	2621	Paper Mill	Major	South Fork Holston River @ RM 2.3	0601010206
TN0020095	Kingsport STP	4952	Sewerage System	Major	South Fork Holston River @ RM 2.2	0601010206
TN0064050	Portola Packaging, Inc.	3089	Plastic Products	Major	South Fork Holston River Sluice @ RM 0.4	0601010206
TN0025151	West Middle and Elementary School	4952	Sewerage System	Minor	Horse Creek @ RM 6.2	0601010206
TN0054941	Bays Mountain Park	4952	Sewerage System	Minor	Doland Branch @ RM 1.5	0601010206
TN0056898	Magic Wand Car Wash	7542	Sewerage System	Minor	Horse Creek @ RM 9.8	0601010206
TN0057118	Horse Creek Village S/D	4952	Sewerage System	Minor	UT @ RM 0.1 to Horse Creek @ RM 9.0	0601010206

**Table A4-5. NPDES Permittees in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** RM, River Mile; SIC, Standard Industrial Classification; MADI, Major Discharge Indicator; UT, Unnamed Tributary.

FACILITY NUMBER	PERMITEE	SIC	SIC NAME	WATERBODY	HUC-10
TN0054445	General Shale Products (Mine #3)	1459	Shale (Common) Quarrying-not for Manufacturing	South Fork Holson River	0601010206
TN0027588	Rinker Materials South Central (Tri-Cities Quarry)	1422	Limestone-Crushed and Broken	UT(s) to South Fork Holston River	0601010206

**Table A4-6. Active Permitted Mining Sites in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** SIC, Standard Industrial Classification; UT(s), Unnamed Tributaries.

FACILITY NUMBER	FACILITY NAME	WATERBODY	HUC-10
TN0062235	Bloomingtondale Utility District WTP	Reedy Creek @ RM 10.6	0601010206
TN0004499	Kingsport WTP	South Fork Holston River @ RM 6.0	0601010206

**Table A4-7. Water Treatment Plants in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** RM, River Mile.

FACILITY NUMBER	FACILITY NAME	WATERBODY	HUC-10
TNG110249	Ross Prestressed Concrete	WWC to Back Creek	0601010206
TNG110145	Summers Taylor Concrete Plant	UT to South Fork Holston River	0601010206
TNG110140	Byerley Construction Co.	Brookside Creek @ RM 0.5	0601010206
TNG110123	Tri-Cities Concrete Co.	WWC to South Fork Holston River	0601010206
TNG110133	Loven Ready Mix	Holston River	0601010206

**Table A4-8. Ready Mix Concrete Plants in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** RM, River Mile; UT, Unnamed Tributary; WWC, Wet Weather Conveyance.



LOG NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-10
NRS00.180	Sullivan	Spring relocation	Leslie Branch	0601010206
NRS00.347	Sullivan		Spring Drain to Leslie Branch	0601010206
NRS00.178	Sullivan	Channel Relocation	Leslie Branch	0601010206
NRS03.321	Sullivan	Sanitary Sewer Line	Straight Branch	0601010206
NRS03.005	Sullivan	Wetland Fill	Reedy Creek	0601010206
NRS00.032	Sullivan	Impoundment	UT to Russell Creek	0601010206
NRS00.004	Washington	Stream Alignment and Restoration	Onion Branch	0601010206
NRS00.074	Washington	Wetland Fill	Little Limestone Creek	0601010206
NRS02.014	Sullivan	Box Culvert	Straight Branch	0601010206
NRS02.084	Sullivan	Bridge Repair	Holston River	0601010206
NRS01.335	Sullivan	Wetland Fill	Wetland to UT to Horse Creek	0601010206

**Table A4-9. Individual ARAP Permits Issued January 2000 Through June 2004 in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed. UT, Unnamed Tributary.**

FACILITY NUMBER	FACILITY NAME	SECTOR	RECEIVING STREAM	AREA*	HUC-10
TNR053049	S&S Used Parts	M	UT to Reedy Creek	7.8	0601010206
TNR054064	Bays Truck salvage	M	UT to Reedy Creek	3.5	0601010206
TNR051254	Waste Management of Tennessee	P	Russell Creek	5	0601010206
TNR051754	General Shale Products	E, P	Reedy Creek	30	0601010206
TNR056451	Auto Center of Tennessee	M	Reedy Creek @ RM 0.5	34.9	0601010206
TNR050052	Midway Auto Salvage	M	WWC to Cedar Creek	4.5	0601010206
TNR053459	APAC Kingsport	P	Not Provided	11.57	0601010206
TNR054599	Tex-Tenn Corporation	V	Ford Creek	14.51	0601010206
TNR053641	Hilltop Auto Salvage	M	Leslie Branch	4.5	0601010206
TNR050051	Brookside Used Auto Parts	M	Miller Branch	3.91	0601010206
TNR056388	FedEx Freight East	P	Kendrick Creek	1	0601010206
TNR051870	TPI Corporation	AC	UT to Ford Creek	90	0601010206
TNR050881	Land-O-Sun Dairies	U	South Fork Holston River	9.5	0601010206
TNR050062	A-1 Auto salvage	M	Holston River	20	0601010206
TNR053545	Chiquola Fabrics	V	Holston River	19	0601010206
TNR056402	CSX Intermodal Terminal	P	Storm Sewer to Madd Branch @ RM 0.4	10	0601010206
TNR053953	Enterprise Transportation Company	P	South Fork Holston River	3	0601010206
TNR053962	BAE Systems Ordinance Systems (HAAP)	C, L	Holston River, South Fork Holston River, Madd Branch, Arnott Branch	2,100	0601010206
TNR051682	General Shale Products	E, P	Storm Drain to Reedy Creek	112.7	0601010206
TNR050524	Quebecor World	X	Reedy Creek	22.73	0601010206
TNR054024	Weyerhaeuser Company	B, P	South Fork Holston River and Reedy Creek	78.1	0601010206
TNR050883	Airgas-Mid America	C, AD	Holston River	8	0601010206
TNR053070	Kingsport STP	T	Reedy Creek	18	0601010206
TNR056422	Kingsport Vehicle Maintenance	P	South Fork Holston River	3.5	0601010206
TNR050444	Portola Packaging	Y	South Fork Holston River	5.98	0601010206

**Table A4-10. Active Permitted TMSP Facilities in the Group 3 Portion of the Tennessee Portion of the South Fork Holston River Watershed.** Area, acres of property associated with industrial activity; RM, River Mile; WWC, Wet Weather Conveyance. Sector details may be found in Table A4-11.

SECTOR	TMSP SECTOR NAME
A	Timber Products Facilities
AA	Facilities That Manufacture Metal Products including Jewelry, Silverware and Plated Ware
AB	Facilities That Manufacture Transportation Equipment, Industrial or Commercial Machinery
AC	Facilities That Manufacture Electronic and Electrical Equipment and Components, Photographic and Optical Goods
AD	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)
AE	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Not Required)
B	Paper and Allied Products Manufacturing Facilities
C	Chemical and Allied Products Manufacturing Facilities
D	Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities
E	Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities
F	Primary Metals Facilities
G	Metal Mines (Ore Mining and Dressing) (RESERVED)
H	Inactive Coal Mines and Inactive Coal Mining-Related Facilities
I	Oil or Gas Extraction Facilities
J	Construction Sand and Gravel Mining and Processing and Dimension Stone Mining and Quarrying Facilities
K	Hazardous Waste Treatment Storage or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste and Recycling Facilities
O	Steam Electric Power Generating Facilities
P	Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and Terminals, the United States Postal Service, or Railroad Transportation Facilities
Q	Vehicle Maintenance Areas and Equipment Cleaning Areas of Water Transportation Facilities
R	Ship or Boat Building and Repair Yards
S	Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing Operations located at Air Transportation Facilities
T	Wastewater Treatment Works
U	Food and Kindred Products Facilities
V	Textile Mills, Apparel and other Fabric Product Manufacturing Facilities
W	Furniture and Fixture Manufacturing Facilities
X	Printing and Platemaking Facilities
Y	Rubber and Miscellaneous Plastic Product Manufacturing Facilities
Z	Leather Tanning and Finishing Facilities

**Table A4-11. TMSP Sectors and Descriptions.**